

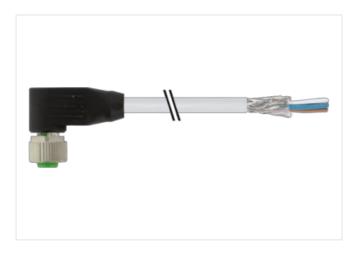
M12 female 90° A-cod. with cable shielded

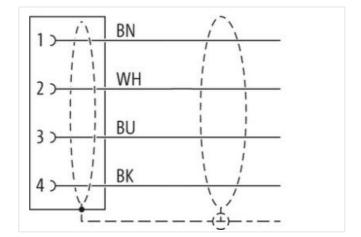
PUR 4x0.34 shielded gy UL/CSA+drag ch. 25m

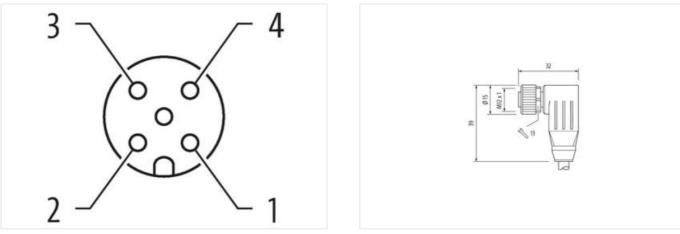
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

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25 m

0,6 Nm



Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	Α
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879460781
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device weeks after 1 Electric 1	
Device protection Electrical	
Device protection Electrical Additional condition protection degree	inserted, screwed
	inserted, screwed 3
Additional condition protection degree	
Additional condition protection degree Pollution Degree	3
Additional condition protection degree Pollution Degree Rated surge voltage	3
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1)	3
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data	3 1,5 kV I
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking	3 1,5 kV I Nickeled
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting	3 1,5 kV I Nickeled nickel plated
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material	3 1,5 kV I Nickeled nickel plated Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection	3 1,5 kV I Nickeled nickel plated Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min.	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max.	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature max. Additional condition temperature range	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C depending on cable quality
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief	3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity	3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be

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Cable Type 3 Jacke Color giny Type of Certificate cURus Amount stranding 1 Stranding 4 wites tweled Cable Stranding (type) copper total, funed Cable Stranding (type) copper total, funed Cable Stranding (type) B0 %. Banding Fleese, Foll wire arrangement brown, black, blue, while Cable Stranding (type) B0 & S fore A Freedom from ingredients (type) B1 & S fore A Freedom from ingredients (type) Bad free. cadmium-free. CFC-free, halogen-free. Outer diameter insulation PD + Tolerance outer diameter (type) 2.5 %. Material Ware insulation PP Amount wires 4 Cuter diameter insulation 1.25 mm Cuter diameter insulation 1.25 mm Ingredem free ware insulation 1.25 mm Material Ware insulation 1.25 mm Material ware insulation 1.25 mm Conductor values ware insulation 1.25 mm Material andout, kree)	Cable identification	241
Type of Cartilicatio U/Rus Amount stranding 1 Stranding 4 wires twisted Cable shielding (type) copper brinit, linend Cable shielding (coverage) 80 % Banding Fleece, Foil wire arrangement. brown, black, blue, while Cable weigh 50.6 g m Material jacket PUR Shore hardness jucket 99.5 S Shore A Freedom from ingredients (jacket) 16.8 f % Outer diameter (jacket) 5.3 mm Outer diameter (jacket) 1.5 % Material wer insulation 1.25 mm Outer diameter insulation 1.25 S Shore D Ingredient treeness wire insulation 1.84 % S Conductor rows insulation 1.84 % S Conductor rows insulation 1.84 % S Conductor rows insulation 1.95 % C For insort Material conductor wire <	Cable Type	3
Amount stending 1 Branding 4 wise twisted Cable shielding (type) cooper braid, timned Cable shielding (coverage) 80 % Barding Fleece, Foll with arrangement brow, black, blue, white Cable shielding (coverage) 80 % Barding Fleece, Foll With and Jackst PUR Shore hardness jacket 90 15 Shore A Freedom from ingredients (jacket) 53 m Tolerance outer diameter (health) 15 % Material jackst 91 15 Shore A Freedom from ingredients (jacket) 53 % Material wire insulation PP Arrout wires 4 Outer diameter insulation 1.25 mn Outer diameter insulation 1.85 % Shore hardness wire insulation 1.84 free, cadmium-free, CPC-free, halogen-free, silicone-free Armount strands (wire) 42 Diameter or singledint 0.1 mm Conductor crossection (wire) 0.34 mm? Material conductor wire Stranded coper wire, bare Conductor vire astr	Jacket Color	gray
Stradig 4 wires twisted Cable shielding (type) coppor braid, timed Cable shielding (cverage) 80 % Banding Fleece, Foll wire arrangement brow, hack, blue, white Cable weigh 50.6 g/m Matural jacket PUR Stree hardness jacket 90.5 S form Freeder from ingredents (jacket) 1ead-tea, cadmum-free, CFC-tee, halogen-free, silicone-free Outer-diameter (jacket) 1.5 % Matural jacket 9.1 S Shrone A Tolerance outer diameter (sheath) 1.5 % Material wire insulation PP Around wires 4 Outer diameter insulation 1.25 rm Outer diameter insulation 1.25 rm Tolerance outer diameter insulation 1.25 rm Toler dranes wire insulation 1.25 rm Tanderdess wire insulation 1.25 rm Tanget tree trees wire insulation 1.25 rm Mount strand (vire) 42 Dameter of single wires 0.1 mm Conductor rossection (wire) 0.34 mm² Conductor roype (wire) Strand closs 6 Traversing dis	Type of Certificate	cURus
Cable sholding (type) copper braid, linned Cable sholding (coverage) B0 %. Banding Fleecoc, Foll wire arrangement brown, black, blue, while Cable weigh 50,6 g/m Share hardness jacket PUR Share hardness jacket 90 ± 5 Shore A Freedom from ingredients (acket) 5.3 mm Tolerance outer diameter (saket) 5.3 mm Tolerance outer diameter (saket) 5.3 mm Tolerance outer diameter (saket) 5.2 mm Outer diameter insulation PP Amount wrises 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter insulation 1.26 mm Outer diameter insulation	Amount stranding	1
Gable shielding (coverage) 80 % Banding Fleece, Foil wite arrangement brow, black, ble, white Cable weigh 50.6 g/m Material jacket PUR Shore hardness jacket 90.4 5 Shore A Freedom from ingredients (gacket) lead-free, cadmum-free, CPC-free, halogen-free, silicone-free Outer-dameter (gacket) 1.5 % Material wire insulation 1.5 % Material wire insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter wire insulation 1.25 Shore D Ingredient freeness wire insulation 1.25 Shore D Ingredient reeness wire insulation 1.25 Shore D Ingredient reeness wire insulation 1.26 Imm Conductor crossection (wire) 0.34 mm ² Conductor crossection (wire) 0.34 mm ² Conductor crossection (wire) 0.34 mm ² Coursent back gasket (standard) 10 DIN VDE 0298.4 Current load capacity min, wire 4.8 A Electrical resistance line constant wire 57 Okm @ 20 °C	Stranding	4 wires twisted
Banding Fleece, Foll wire arrangement brown, black, blue, white Cable weigh 50.6 g/m Material jackat PUR Shore hardness jackat 90.5 Shore A Freedom from ingredents (jacket) lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5.3 mm Tolerance outer diameter (halogen) 5.5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Conductor t	Cable shielding (type)	copper braid, tinned
wire arrangement brown, black, blue, white Cable weight 50,6 g/m Material jackt PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-tree, cadmium-tree, CFC-tree, halogen-tree, silicone-tree Outer diameter (jacket) ± 5 % Material jacket PP Amount wires 4 Outer diameter (lolerance or insulation 1.25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Conductor crosssection (wire) 0.34 mm² Conductor vires Stranded copper wire, bare Conductor vire Stranded copper wire, bare </td <td>Cable shielding (coverage)</td> <td>80 %</td>	Cable shielding (coverage)	80 %
Cable weigh 50,8 g/m Material jacket PUR Shohe hardness jacket 90,4 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5.3 mm Tolerance outer diameter (sheath) 1.5 % Material wire insulation PP Anount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.5 mm Outer diameter insulation 1.5 mm Graductor crosssection (wire) 42 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor vire (chrack) 5 m @ 25 °C horizontal Normal voitage AC max. 300 V Current load capacity min. wire 4.8 A Electrical resistance line constant wire	Banding	Fleece, Foil
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom tion ingredients (jacket) lead-tree, cadmium-tree, CFC-tree, halogen-free, silicone-tree Cuter-diameter (jacket) 5.3 mm Tolerance outer diameter (seleath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter iolerance core insulation 1.25 mm Outer diameter tolerance core insulation 1.25 mm Material conductor coressection (vire) 42 Diameter of single wires 0.1 mm Conductor corssection (vire) 0.34 mm² Material diversion 9 m 2 S C (horizontal Normal voltage AC max. 300 V Current load capacity rim, wire 4.8 A Electrical resistance 1.00 NUE 0239-4 Current load capacity min, wire	wire arrangement	brown, black, blue, white
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5.3 mm Tolerance outer diameter (jacket) 5.5 % Material wire insulation PP Amount wires 4 Outer diameter (loterance core insulation 1.25 mm Outer diameter (loterance core insulation 1.25 shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires 0.1 mm Conductor coressection (wire) 0.24 mm ² Diameter of single wires 0.1 mm Conductor coressection (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor corescapetor (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor coreaction (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor coreaction (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conthot concapacity (standard) to DN	Cable weigth	50,6 g/m
Freedom from ingradients (jacket) lead-free, cadmium-free, CPC-free, halogen-free, silicone-free Outer-diameter (jacket) 5.3 mm Material wire insulation PP Amount wires 4 Outer diameter (naulation 1.25 mm Outer diameter folerance core insulation 1.5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor vires (wire) 0.34 mm ² Material conductor wire Strand class 6 Travensing distance (C-frack) 5 m @ 25 °C horizontal Nominal voltage A C max. 300 V Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 (JMm @ 20 °C Ac withstand voltage (wire - shick) 24 V @ 60 s Power frequency withstand voltage (wire - shick) 24 V @ 60 s Ac withstand voltage (wire - shick) 24 V @ 60 s Power frequency withstand voltage (wire - shick) 24 V @ 60 s Ac withstand voltage (wire - shick) 24 V @ 60 s Operating te	Material jacket	PUR
Outer diameter (jacket) 5,3 mm Tolerance outer diameter (sheath) ± 5 %. Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm. Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 164 free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded copset (P Indizontal Nominal voltage AC max. 300 V Current load capacity min. wire 4.8 A Electrical resistance Electrical resistance Dover forquenc	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Impredient Teeness wire insulation 16ad-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0.34 mm ² Material conductor wire Stranded coper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-rack) 5 m @ 25 °C horizontal Nominal Voltage AC max. 300 V Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (wire - inclosed wire - inclosed	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter iolerance core insulation 15 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 % Shore hardness wire insulation 12.5 mm Ingredient freeness wire insulation 14 ± 2 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2.kV @ 60 s Power frequency withstand voltage (wire - shield) 2.kV @ 60 s Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (Outer-diameter (jacket)	5,3 mm
Anount wires 4 Outer diameter insulation 1,25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor oressection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor towice Stranded copper wire, bare Conductor towice (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2 kW @ 60 s Power frequency withstand voltage (wire - graver and graver	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Imgredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor wire Stranded copper wire, bare Conductor wire Strande copper wire, bare Current Load capacity min, wire 4.8 A Electri	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Conductor (C-track) 5 m @ 25 °C horizontal Nominal voltage A C max. 300 V Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC wirkstand voltage (wire - shield) 2 kV @ 60 s Mar. operating temperature (ked) 80 °C / 90 °C @ 10000 h Operation Operating temperature (ked) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature (ked) 80 °C / 90 °C @ 10000	Amount wires	4
Shore hardness wire insulation 70 ± 5 Shore D Ingredient reeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Courtent load capacity (standard) 57 0/km @ 20	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor wire 0,4 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to VW @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor vire)strand class 6Traversing distance (C-track)5 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity win. wire4,8 AElectrical resistance line constant wire57 Q/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-40 °CGascine resistanceGood, application-related testingGascine resistanceDIN EN 60811-404 Good, application-related testingBending radius	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires0,1 mmConductor cossection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor consection (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sPower frequency withstand voltage (wire - acket)2 kV @ 60 sPower frequency withstand voltage (wire - acket)2 kV @ 60 sMax. operating temperature (fixed)40 °CMax. operature (static)-40 °CMax. operature (static)-40 °COperating temperature (static)-40 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature fixed)5 x Outer diameterFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1000 FT2 UL 1581 § 1000 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Datafiet of single wiresConductor crosssection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (tsatic)-40 °CMax. operating temperature (tixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 × Outer diameterBending radius (fixed)5 × Outer diameterBending radius (dynamic)10 × Outer diameterRending radius (fixed)5 × Moure diameterRending radius (fixed)5 × Outer diameterRending radius (fixed)5 × Moure diameterRending radius (dynamic)10 × Outer	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (indurd) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -26 °C Operating temperature max. (dynamic) -26 °C Odian resistance Good, application-related testing Gasoline re	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Conductor crosssection (wire)	0,34 mm²
Traversing distance (C-track)5 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Conductor type (wire)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - acket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Traversing distance (C-track)	5 m @ 25 °C horizontal
Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (static) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m		2 kV @ 60 s
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Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature min. (dynamic)	-25 °C
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Gasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
Oil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Oil resistance	DIN EN 60811-404 Good, application-related testing
Travel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	5 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

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